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AMENDMENTS TO THE CLAIMS

Please amend claims 1-5, 8 and 10-13, add new claims 16-20, and cancel claims 6, 7, 9, and 15 as set forth below.

Listing of Claims

(Currently Amended) An occlusion device comprising:

a braiding of thin wires or threads given a suitable form by a molding and heat treatment procedure, having a proximal retention area with a first diameter and a distal retention area with a second diameter; [.]

a holder disposed in the distal retention area, wherein the ends of the wires or threads converge therein[,]; and

a cylindrical crosspiece interposed between said proximal and distal retention areas, the cylindrical crosspiece having a third diameter smaller than the first diameter and second diameter; whereby the two retention areas are positioned on the two sides of a shunt to be occluded in a septum by an intravascular surgical procedure while the crosspiece transverses the shuntf, I and

wherein the proximal retention area of the braiding exhibits a flaring toward a proximal end, and

wherein an edge of the proximal end lies flush with the septum.

- (Currently Amended) An <u>The</u> occlusion device in accordance with claim 1, wherein the braiding is composed of nitinol or of another shape-memory material.
- (Currently Amended) An <u>The</u> occlusion device in accordance with claim 2, wherein the braiding is formed from a shape-memory polymer, preferably based on a polyanhydride matrix or on polyhydroxycarboxylic acids.

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 (Currently Amended) An <u>The</u> occlusion device in accordance with claim 2 <u>3</u>, wherein the braiding is formed from a shape-memory polymer of a block copolymer form

 (Currently Amended) An <u>The</u> occlusion device in accordance with claim 1, wherein the braiding tapers to a diameter which is suitable for delivery by one of a plurality of catheters used in the intravascular surgical procedure.

(Cancelled)

(Cancelled)

8. (Currently Amended) An <u>The</u> occlusion device in accordance with claim 1, wherein the wires or threads of the braiding at the open end of the proximal retention area are looped back to a closed end of the distal retention area and secured at the distal retention area in the holder disposed in the distal retention area.

9. (Cancelled)

10. (Currently Amended) A method of manufacturing an occlusion device comprising:

configuring a funnel-shaped hollow braiding by bundling said hollow braiding at a first distal end:

allowing an opposite second proximal end to remain open;

forming a proximal retention area <u>having a first diameter</u> at the open second <u>proximal</u> end[,] and a distal retention area <u>having a second diameter</u> at the bundled first <u>distal</u> end[,]; and

interposing a cylindrical crosspiece <u>having a third diameter smaller that the first</u> diameter and second diameter between said proximal and said distal retention areas[,]

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wherein said proximal retention area of said braiding is flared towards the proximal end.

11. (Currently Amended) The method in accordance with claim 10, further comprising configuring a holder at the bundled distal first end of said funnel-shaped

hollow braiding.

12. (Currently Amended) The method in accordance with claim 10, wherein the <u>step of forming a proximal retention area comprises shaping the proximal end of the braiding in the form of a tulip, bell, or saucer when viewed in cross-section wires and threads of the braiding at an outer edge of the flattened tulip shape of the open end of the proximal</u>

retention area are looped back to a closed end of the distal retention area and are

bundled and secured there in the holder.

 (Currently Amended) The method in accordance with claim 10, wherein the step steps configuring a funnel-shaped hollow braiding comprises braiding a shape-memory

polymer of forming retention areas and crosspiece includes a molding and/or heat

treatment.

14. (Previously Presented) The method in accordance with claim 10, wherein a funnel-shaped hollow braiding structure is produced such that the thin wires or threads

that comprise finished braiding are intertwined at the proximal open end of the braiding

when the funnel-shaped hollow braiding is formed.

15. (Cancelled)

16. (New) The method in accordance with claim 10, further comprising the step of

securing a fabric insert into the cylindrical crosspiece and/or the retention areas.

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17. (New) The occlusion device in accordance with claim 3, wherein the a shape-memory polymer is based on a polyanhydride matrix or on polyhydroxycarboxylic acids.

18. (New) The occlusion device in accordance with claim 1, wherein a proximal retention area of the braiding exhibits a flattened tulip-shaped, bell-shape, or saucershape when viewed in cross-section.

- 19. (New) The occlusion device in accordance with claim 1, wherein at least one fabric insert is secured to the cylindrical crosspiece or the proximal retention area.
- 20. (New) The occlusion device in accordance with claim 13, wherein the step of braiding a shape-memory polymer comprises braiding a polymer based on a polyanhydride matrix or on polyhydroxycarboxylic acids.